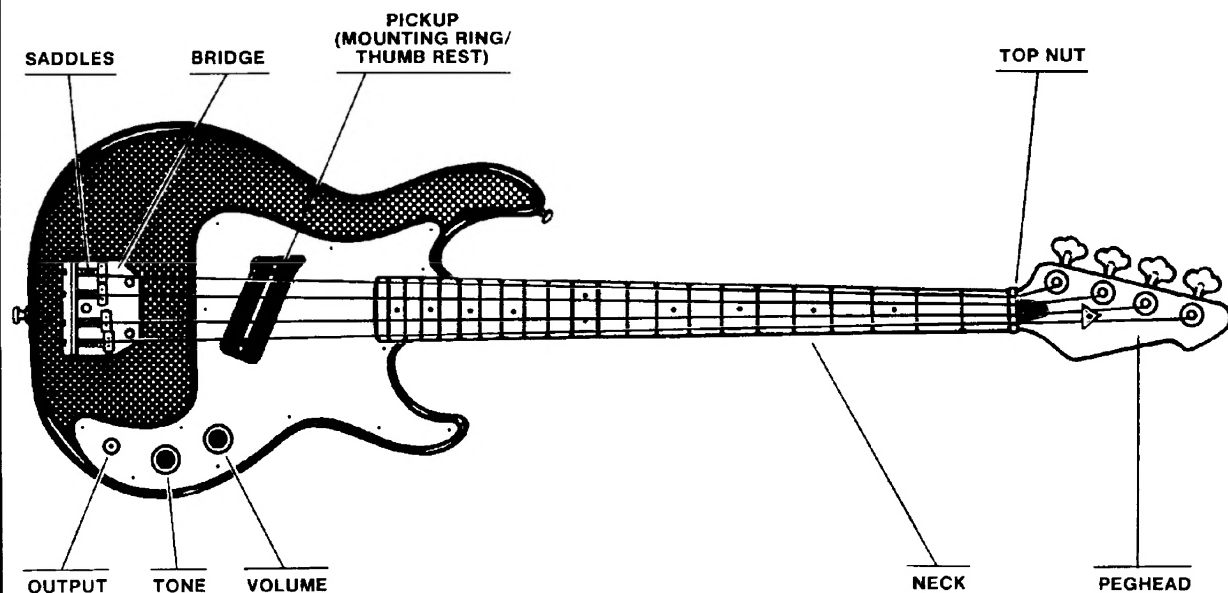


PEAVEY T-20[®]

Owner's Manual



CAUTION
TO PREVENT ELECTRICAL SHOCK, DO NOT EXPOSE THIS INSTRUMENT
TO RAIN OR MOISTURE. BEFORE USING THIS INSTRUMENT, READ BACK
COVER FOR FURTHER WARNINGS.

Neck:

The select rock maple neck is of a unique bi-laminated construction (U.S. Patent #4,237,944) to provide unmatched rigidity and freedom from warpage. Additional reinforcement is provided with a steel torsion rod. This neck adjusting rod features **rolled** threads for improved strength and freedom from breakage. (See Adjustment - Torsion Rod for instructions.)

The full 34" scale length features 21, 18% nickel-silver frets which are medium height, highly crowned, and polished. The arch of the fingerboard is on a 12" radius to provide exceptional playing ease and string distance/balance characteristics. The neck of the T-20[®] also employs four ultra-precision machine heads (24:1

ratio), a die-cast "string-tree" and a bone hard polycarbonate top-nut. The neck is secured to the body with four screws for maximum stability through a die-cast neck plate which features our neck-tilt adjustment. (See Adjustments - Neck Tilt for instructions.)

Body:

The body of the T-20[®] is constructed from the finest maple (satin finish) and southern ash (gloss finish) with deep, double cutaways for easy access to the highest fret. A special forearm and rib cage relief contour allows weight reduction, proper balance, and maximum playing ease. The T-20[®] (satin and gloss sunburst finish) features our polyester/urethane finish which is mar and weather resistant. (See Care of the T-20[®].)

Pickup:

The T-20's® single-coil high output pickup with blade pole piece provides high power and full range operation. The pickup has been "harmonically" placed at a precise point on the body/pickguard allowing greater response from the fundamentals and overtones to be obtained from each string. The pickup is mounted to the pickguard with an integral mounting ring/thumb rest combination (patent applied for) to maximize right-hand playing angle and comfort.

Circuitry:

The circuitry of the T-20® is conventional, with the exception of the tone-compensating volume control, which minimizes high frequency losses when operated at reduced volume levels. However, full volume settings will maximize the tonal capabilities. The volume level should therefore be controlled at the amplifier whenever possible.

Bridge:

The bridge of the T-20® is constructed from triple chrome plated 16 gauge steel and is securely bolted to the body at three points. The four "barrel-type" string saddles are made from heavy duty 1/2" steel for maximum sustain and string stability and are fully adjustable for string height, tilt, and intonation/compensation. (See Adjustments - Height and Intonation for instructions.)

T-20® Controls:

1. Volume control. The volume control acts as a master volume in that it controls the total signal level delivered from the pickup to the output jack. Rotating the control knob **clockwise** will **increase** volume; rotating **counterclockwise** will **reduce** volume.
2. Tone control. The tone control, like the volume control, operates as a master control. Rotating **clockwise** will result in more treble (high frequencies) and a brighter tonality. Rotating **counterclockwise** will result in less treble and a "bassier-type" sound.
3. Output jack. The output jack is a genuine Switchcraft 1/4" phone jack which accepts standard guitar patch cords. (We recommend high quality "shielded" patch cords.)
4. Pickup. The volume level of the pickup can be adjusted by raising or lowering the pickup with its height adjustment screws. Raising the pickup closer to the strings will increase the output and volume. Lowering the pickup away from the strings will decrease output and volume.

NOTE

CARE MUST BE TAKEN TO MAINTAIN ADEQUATE CLEARANCE BETWEEN THE PICKUP AND THE STRINGS. INADEQUATE CLEARANCE CAN RESULT IN POSSIBLE LOSS OF SUSTAIN AND POSSIBLE STRING BUZZING WHEN PLAYING ON THE UPPER FRETS.

Adjustments:

Your T-20® guitar has been carefully adjusted for accurate intonation and playing ease at the Peavey factory. However, your playing style or playing requirements may necessitate additional adjustments at sometime in the future. These adjustments should be made by your Peavey dealer. However, with a little care and by adhering closely to the following instructions, you may attempt these adjustments yourself.

CAUTION:
PLEASE READ AND UNDERSTAND THE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING ANY ADJUSTMENTS!

Adjusting Torsion Rod

To set the "straightness" or "relief" of the neck, a Peavey torsion rod wrench No. 75031001 must be used (available from a Peavey Accessory Center).

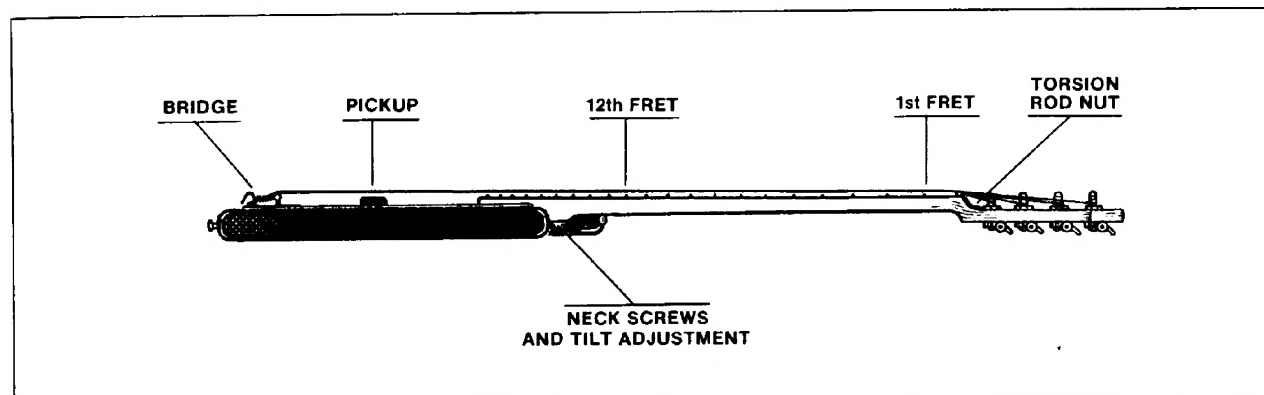
1. Tune the instrument to standard (A-440) pitch.
2. Check for clearance between the strings (1 through 4) and the first fret. **IMPORTANT:** Use an accurate ruler or similar gauge for this measurement.
3. This clearance should be no less than 1/32" and no more than 1/16" at the first fret.
4. Check for clearance between the strings and the twelfth fret.
5. This clearance should be no less than 1/16" and no more than 1/4" at the twelfth fret.
6. To increase clearance, loosen (counterclockwise) torsion rod nut. To decrease clearance, tighten (clockwise) the torsion rod nut. (The torsion rod nut is located underneath the plastic cover plate on the head stock.)

CAUTION:
IT IS NOT USUALLY NECESSARY TO ROTATE THE TORSION ROD NUT THAN ONE FULL TURN IN EITHER DIRECTION. ONE-QUARTER TO ONE-HALF TURN IS NORMALLY SUFFICIENT TO MAKE MOST ADJUSTMENTS. EXCESSIVE ROTATION MAY CAUSE DAMAGE TO THE NECK AND TORSION ROD. IF EXCESSIVE FORCE IS NECESSARY TO ROTATE THE TORSION ROD NUT, YOU SHOULD CONSULT YOUR PEAVEY DEALER OR THE PEAVEY FACTORY BEFORE ANY FURTHER ADJUSTMENT IS MADE.

7. Repeat steps 1 through 6 until proper clearance has been reached.

Neck Tilt:

The neck tilt adjustment works in conjunction with the bridge height adjustment to set the overall string playing height. This adjustment should be used whenever possible to set string height rather than the bridge height adjustment.



1. Relieve string tension slightly by de-tuning the T-20®. (Approximately 1 to 2 full steps.)
2. Loosen two neck screws closest to headstock of the T-20®, approximately 1 turn.
3. Loosen remaining two neck screws closest to the bridge, approximately 2 turns.
4. String height may now be adjusted with the neck tilt screw, which is located **inside** the small hole in the neck plate. A 1/8" Allen wrench is used to make this adjustment. Turning the screw clockwise lowers the strings closer to the fingerboard.

NOTE
STRING HEIGHT SHOULD BE ADJUSTED TO FIT YOUR OWN PARTICULAR PLAYING STYLE. IT SHOULD BE NOTED THAT SETTING THE STRING HEIGHT TOO LOW WILL RESULT IN EXCESSIVE STRING BUZZ AND RATTLE - ESPECIALLY WITH A "HEAVY" PLAYING TECHNIQUE. EXCESSIVELY HIGH ACTION WILL RESULT IN INTONATION PROBLEMS AND DECREASED PLAYABILITY.

5. After adjustment, securely tighten all four neck attaching screws, being careful to balance the torque on all four screws equally.
6. Tune the guitar to standard pitch. Check strings for correct height and playability. If necessary repeat steps 1 through 5 until action is correct.

Saddle Height Adjustment:

The four individual bridge saddles work in conjunction with the neck tilt adjustment to determine the overall string height. Ordinarily, **the neck tilt should be used to set the string height.** However, individual string saddles can be adjusted to "follow" the curvature (12" radius) of the neck to maximize string/fret distance. Use a 1/16" Allen wrench to make the adjustment for **each** string. **NOTE:** This adjustment requires accurate gauges to measure proper string/fret distances and the proper radius (curvature) between the neck and strings. If you are **unfamiliar** with this type of adjustment, we recommend that this setting be performed by qualified personnel at your authorized Peavey dealer.

String Intonation:

Accurate string intonation settings ensure that your instrument will play in tune at any point on the neck. Although "perfect intonation" is a physical impossibility with a fretted instrument, the correct settings with the bridge and saddle combination of the T-20® will maximize the accuracy of individual notes up and down the neck.

Intonation is set by comparing the pitch of an open string to the pitch of the same string when it is played one octave higher at the twelfth fret. The actual "vibrating length" of that string is varied until the notes are both at the right pitch. The "vibrating length" of the string is altered by adjusting the individual bridge saddles either forward or backward, depending on whether the fretted note is sharper or flatter in pitch than the open note. If the fretted note is sharper than the open note, the vibrating length of the string must be increased - move the bridge saddle to the rear, away from the pickup. If the fretted note is flat, the vibrating length must be shortened - move the bridge forward, toward the pickup to shorten the length.

The T-20® features four individual bridge saddles to allow accurate intonation/ compensation on each string.

NOTE
IT IS OFTEN DIFFICULT FOR THE UNTRAINED EAR TO DETERMINE WHEN THE OPEN NOTE AND THE FRETTED NOTE ARE AT PRECISELY THE SAME PITCH. (EXACTLY ONE OCTAVE APART.) SOME PLAYERS FIND THAT COMPARING THE TWELFTH FRET

HARMONIC OF THE STRING (RATHER THAN THE OPEN NOTE) TO THE FRETTED NOTE IS MUCH EASIER. A HARMONIC IS PLAYED BY PLUCKING THE STRING WITH THE RIGHT HAND WHILE TOUCHING THE STRING WITH THE LEFT INDEX FINGER (AS LIGHTLY AS POSSIBLE) DIRECTLY ABOVE THE TWELFTH FRET. THE LEFT INDEX FINGER IS DRAWN AWAY AS QUICKLY AS POSSIBLE AFTER THE STRING IS PLUCKED, PRODUCING A "CHIME" EFFECT. THIS CHIMED NOTE IS THEN COMPARED TO THE FRETTED NOTE. FOR EVEN GREATER EASE AND A HIGH DEGREE OF ACCURACY, WE RECOMMEND ONE OF THE MANY TYPES OF ELECTRONIC GUITAR TUNERS THAT ARE AVAILABLE FROM MOST MUSIC STORES. THE TUNERS WHICH USE EITHER A METER OR A MOVING LED DISPLAY ARE USUALLY EASIER TO USE THAN THE TYPE WITH A NUMERICAL FREQUENCY READOUT.

Setting Intonation:

NOTE:
ALL GUITAR ADJUSTMENTS INTERACT CLOSELY WITH STRING INTONATION. THESE ADJUSTMENTS MUST BE COMPLETED BEFORE ANY ATTEMPT IS MADE TO SET STRING INTONATION AT THE BRIDGE.

1. Ensure that the torsion rod, bridge height, and neck tilt adjustments have been made and are accurate.
2. Tune the T-20® to standard (A-440) pitch.
3. Hold the instrument in a normal playing position. Do not exert any undue pressure on the neck as it will affect intonation settings.
4. Play the first string open (G) and compare it to the pitch of the same string when it is played at the twelfth fret. These notes should be the same.
5. Using a Phillips head screwdriver, adjust the length of the first string saddle so that the open note and the fretted note (or harmonic) are the same.

NOTE
IT WILL OFTEN BE NECESSARY TO RE-TUNE THE OPEN STRING TO STANDARD PITCH AFTER THE BRIDGE SADDLE POSITION IS ALTERED.

6. Repeat steps 4 and 5 for the 2nd, 3rd, and 4th strings.
7. Repeat step 1 through 6 as necessary until intonation of all strings are accurately adjusted.

Care of the T-20®:

The T-20® is a high quality musical instrument constructed from the finest materials and with the most modern production methods available. With reasonable care it should provide many years of service and outstanding playability.

Temperature and Humidity:

It is important that your T-20® be protected from any extremes or sudden changes in either temperature or humidity. The instrument should be stored in its case whenever it is not in use.

Strings:

String life may be greatly extended by frequent cleaning and wiping after use. Dirt and perspiration tend to build up on the underside of the strings so it is often necessary to slide a rag between the strings and the fingerboard. Dirt-laden strings cause tuning and intonation problems as well as rust and corrosion.

For best performance, strings should be changed approximately once a month or every twenty-four hours of playing. Some players may find that they prefer to change strings more often.

NOTE
YOUR T-20® IS EQUIPPED WITH PEAVEY GLIDER® ELECTRIC BASS STRINGS. THE INTONATION AND ACTION OF YOUR INSTRUMENT HAS BEEN CAREFULLY ADJUSTED FOR MAXIMUM PLAYABILITY WITH THESE STRINGS. WHEN STRING REPLACEMENT BECOMES NECESSARY, WE STRONGLY RECOMMEND OUR FIELD PROVEN HIGH QUALITY AND LONG LASTING PEAVEY GLIDERS® FOR ROCK STYLES OR GLIDERS FOR COUNTRY STYLES.

Case:

A unique molded and durable plastic case (patent applied for) provides maximum protection and road durability. The T-20® case features large storage areas and a padlock tab to facilitate locking for air shipment. The case may be cleaned with a damp cloth with or without soap. Care should be taken to avoid wetting the foam interior.

Finish:

Your T-20® has a polyester/urethane finish, which is both durable and weather-resistant, but nevertheless, needs care. Automotive grade waxes will protect, clean, and shine it. Between waxings, the instrument should be wiped with a dry, soft cloth.

DANGER

ALL AMPLIFICATION ACCESSORIES, MICROPHONES, MIXERS, ETC., MUST BE PROPERLY GROUNDED AND SHOULD BE UTILIZED WITH A 3-WIRE MAINS SYSTEM IN ORDER TO AVOID ELECTRICAL SHOCK.

DANGER

DO NOT COME INTO CONTACT WITH OTHER ELECTRICAL APPARATUS WHEN PLAYING (OR TOUCHING) YOUR INSTRUMENT. THE METAL PARTS OF THIS INSTRUMENT ARE GROUNDED ACCORDING TO PROPER AND ACCEPTED INDUSTRY PRACTICE, BUT IT IS POSSIBLE TO ENCOUNTER AN ELECTRICAL SHOCK WHEN COMING INTO CONTACT WITH ANOTHER ELECTRICAL APPARATUS IF IT HAS IMPROPER GROUNDING FACILITIES.

WARNING

DO NOT USE IMPROPER OR POORLY DESIGNED GUITAR STRAPS OR OTHER MEANS OF SUPPORT. POSSIBLE INJURY COULD RESULT IF IMPROPER, INFERIOR, ILL FITTING OR WORN OUT STRAPS ARE USED. THE INSTRUMENT COULD POSSIBLY FALL, CAUSING BODILY INJURY OR DAMAGE TO THE INSTRUMENT OR ASSOCIATED EQUIPMENT IF THE HOLDING DEVICES FAIL FOR ANY REASON.

DANGER

GUITAR STRINGS ARE MADE FROM VERY STRONG STEEL ALLOYS. THEY ARE DESIGNED TO BE USED UNDER TENSION AND, UNDER CERTAIN CONDITIONS, THEY MAY BREAK AND SPRING AWAY FROM THE GUITAR. DO NOT TUNE OR PLAY THIS INSTRUMENT WITH YOUR FACE IN CLOSE PROXIMITY TO THE STRINGS, AS SERIOUS INJURY COULD RESULT IF A STRING SHOULD BREAK.

WARNING

BASS GUITAR STRINGS ARE UNDER CONSIDERABLE TENSION WHEN THEY ARE TUNED TO CONCERT (A-440) PITCH. EXERCISE EXTREME CARE WHEN TUNING (ESPECIALLY ABOVE CONCERT PITCH) OR WHEN EMPLOYING STRING BENDING OR "POPPING" PLAYING TECHNIQUES. THE POSSIBILITY OF STRING BREAKAGE AND PERSONAL INJURY EXISTS UNDER THESE CONDITIONS.

NOTE

THE PATCH CORD BETWEEN THE GUITAR AND THE AMPLIFIER IS AN EXTREMELY IMPORTANT LINK. FOR OPTIMUM PERFORMANCE, A HIGH QUALITY WELL SHIELDED CORD SHOULD BE USED IN THIS APPLICATION.

PEAVEY GUITAR ONE-YEAR LIMITED WARRANTY/REMEDY

PEAVEY ELECTRONICS CORPORATION ("Peavey") warrants this Guitar to be free from defects in material and workmanship for a period of one year from date of purchase; PROVIDED, however, that this limited warranty is extended only to the original retail purchaser and is subject to the conditions, exclusions and limitations hereinafter set forth.

CONDITIONS, EXCLUSIONS AND LIMITATIONS OF LIMITED WARRANTY

This limited warranty shall be VOID and of NO EFFECT if:

1. The first purchase of the product is for the purpose of resale; or
2. The original retail purchase is not made from an AUTHORIZED PEAVEY DEALER; or
3. The product has been damaged by accident or unreasonable use, neglect, improper service or maintenance, or other causes not arising out of defects in material or workmanship.

This limited warranty shall not extend to or cover guitar strings. Replacement of guitar strings is deemed to be reasonable and necessary maintenance.

Purchaser's exclusive remedy for breach of this limited warranty is repair of the defect or replacement of the Guitar, at Peavey's option, after the Guitar is returned, postage prepaid and insured, along with a description of the problem, proof of purchase and a complete return address to:

PEAVEY ELECTRONICS CORPORATION
711 A Street
Meridian, Mississippi 39301

If the defect is remedial under this limited warranty, and the other terms and conditions expressed herein have been complied with, Peavey will repair or replace the product and will return it, freight collect, to the purchaser. Other than the postage and insurance requirement, no charge will be made for such repair or replacement.

Peavey's liability to the purchaser for any cost whatsoever, and regardless of the form of action, whether in contract or in tort, including negligence, shall be limited to actual damages up to an amount equal to the greater of the purchase price of the product causing the damage or \$500.00. UNDER NO CIRCUMSTANCES WILL PEAVEY BE LIABLE FOR ANY LOST PROFITS, ANY INCIDENTAL DAMAGES OR ANY CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR INABILITY TO USE THE GUITAR, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The foregoing limitation of remedy will not apply to the payment of cost and damage awards for personal injury or damage to real property or tangible personal property caused by negligence on Peavey's part.

THIS LIMITED WARRANTY IS IN LIEU OF ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE; PROVIDED, HOWEVER, THAT IF THE OTHER TERMS AND CONDITIONS NECESSARY TO THE EXISTENCE OF THE EXPRESS, LIMITED WARRANTY, AS HEREINABOVE STATED, HAVE BEEN COMPLIED WITH, IMPLIED WARRANTIES ARE NOT DISCLAIMED DURING THE ONE-YEAR PERIOD FROM DATE OF PURCHASE OF THIS GUITAR.

SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY ON THIS GUITAR, AND NO OTHER STATEMENT, REPRESENTATION, WARRANTY OR AGREEMENT BY ANY PERSON SHALL BE VALID AS TO OR BINDING UPON PEAVEY.

THE WARRANTY REGISTRATION CARD AND A LEGIBLE COPY OF THE PROOF OF PURCHASE SUPPLIED TO YOU BY THE AUTHORIZED PEAVEY DEALER IN CONNECTION WITH YOUR PURCHASE FROM HIM OF THIS GUITAR SHOULD BE ACCURATELY COMPLETED, MAILED TO AND RECEIVED BY PEAVEY WITHIN FOURTEEN (14) DAYS FROM THE DATE OF YOUR PURCHASE.

Should notification become necessary for any condition that would require correction, the registration card will help insure that you are contacted and properly notified.

If you move from the address shown on the WARRANTY REGISTRATION CARD, you should notify Peavey of the change of address so as to facilitate your receipt of any bulletins or other forms of notification which may become necessary in connection with any condition that may require dissemination of information or correction.

The WARRANTY REGISTRATION CARD and subsequent notices of change of address should be mailed to:

PEAVEY ELECTRONICS CORPORATION
P.O. Box 2898
Meridian, Mississippi 39301

In the event any modification or disclaimer of express or implied warranties, or any limitation of remedies, contained herein conflicts with applicable law, then such modification, disclaimer or limitation, as the case may be, shall be deemed to be modified to the extent necessary to comply with such law.

The limited warranty is given by Peavey Electronics Corporation with respect to equipment purchased in the United States of America.



Due to our efforts for constant improvement, features and specifications listed herein are subject to change without notice.

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